Patent claims

1. Device (4) for adjusting and testing the axial force in screw joints, wherein the device includes a check device for limiting an axial force operating between force-applying elements of the screw joint, characterised in that the check device has means (4, 5) for signal value pick-up from a measuring element (2) whose electrical resistance is variable as a function of the operative axial force.

2. Device according to claim 1, characterised in that it has a component (2) for fixing a rotatable force-applying element.

3. Device according to claim 2, characterised in that the fixing component (3) includes means (4, 5) for signal pick-up.

4. Device according to any of the preceding claims, characterised in that the means (4, 5) for signal value pick-up have contacts for galvanic, capacitive or inductive signal value transmission.

5. Device according to any of the preceding claims, characterised in that the means for signal value pickup are designed for the simultaneous measurement of one or more signal values.

6. Device according to claim 2, characterised in that the component (3) for fixing a rotatable force-applying element is designed for fixing a bolt head (7), a nut (8) or the like and the means (4, 5) for signal value pick-up are likewise accommodated in the component (3) for fixing a rotatable force-applying element for contacting a washer (2) arranged between the force-applying elements.

7. Device according to any of the preceding claims, characterised in that the device provides an electrical connection to the electrical earth terminal to the measuring element (3).

8. Device according to any of the preceding claims, characterised in that the screw joint includes force-applying elements (7, 8) or connecting elements (9) between the force-applying elements made of wood, metal or plastic.

9. Device according to claim 2, characterised in that the component (3) is designed for fixing recessed-head, slotted-head, hexagon, square and Allen-key bolts or the like.

10. Device according to any of the preceding claims, characterised in that a device for acoustic or optical indication (10) of adjusted axial force values is provided.